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NOTICE OF ALLOWANCE AND FEE(S) DUE

24298 7590 08/08/2008 UT-Battelle, LLC

Office of Intellectual Property One Bethal Valley Road 4500N, MS-6258 Oak Ridge, TN 37831 EXAMINER
VIJAYAKUMAR, KALLAMBELLA M
ART UNIT PAPER NUMBER

ART UNIT

DATE MAILED: 08/08/2008

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|--------------------------|---------------------|------------------|
| 10/809,174 | 03/23/2004 | Mariappan P. Paranthaman | 1323 | 7770 |

TITLE OF INVENTION: SUPERCONDUCTORS ON IRIDIUM SUBSTRATES AND BUFFER LAYERS

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | YES | \$720 | \$300 | \$0 | \$1020 | 11/10/2008 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

| appropriate. All further indicated unless correcte maintenance fee notifical | correspondence includir ed below or directed of tions. | ng the Patent, advance of nerwise in Block 1, by (| orders and notification of a) specifying a new co | of m erresp | aintenance fees v oondence address | vill be and/or | mailed to the current (b) indicating a sepa | corresponde rate "FEE A | ace address as .DDRESS" for |
|--|---|---|---|---|---|---|---|---|---|
| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) | | | | Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. | | | | | |
| 24298 | 7590 08/08 | /2008 | | rc | | | | | |
| UT-Battelle, LLC Office of Intellectual Property One Bethal Valley Road | | | | Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. | | | | | |
| 4500N, MS-625 | | | 1 | (Depositor's nam | | | | | |
| Oak Ridge, TN | 5/831 | | İ | | | | | | (Signature) |
| | | | į | | | | | | (Date) |
| APPLICATION NO. | APPLICATION NO. FILING DATE | | | VENTOR ATTORNEY DOCKET NO. CONFIR | | | CONFIRM | ATION NO. | |
| 10/809,174 | 03/23/2004 | | Mariappan P. Parantha | man | | | 1323 | 77 | 770 |
| TITLE OF INVENTION | | | | | | | | | |
| APPLN, TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE D | UE | PREV. PAID ISSU | E FEE | TOTAL FEE(S) DUE | | TE DUE |
| nonprovisional | YES | \$720 | \$300 | _ | \$0 | | \$1020 | 11/ | 10/2008 |
| EXAM | | ART UNIT | CLASS-SUBCLASS | \Box | | | | | |
| VIJAYAKUMAR, K | | I793 | 505-237000 | | | | | | |
| 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTOSB/122) attached. The Address' indication for "Fee Address" Indication form PTOSB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. | | | (I) the names of up or agents OR, altern (2) the name of a si registered attorney 2 registered patent | For printing on the patent front page, list the names of up 0 a fegistered patent attorneys agents OR, alternatively, the name of a upple firm (having as a member a complete of the patent attorneys or agents. If no name is a declaration of the printed. | | | | | |
| 3. ASSIGNEE NAME A PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIG | less an assignee is ident h in 37 CFR 3.11. Comp GNEE | ified below, no assignee pletion of this form is NO | data will appear on th VT a substitute for filing (B) RESIDENCE: (C. | e pa an a | tent. If an assign assignment. and STATE OR C | OUNT | 'RY) | | |
| | | | | | | | | | |
| 4a. The following fee(s): | are submitted: | 4 | b. Payment of Fee(s): (I A check is enclose | | se first reapply a | ny prev | lously paid issue fee | hown above | :) |
| Publication Fee (No small entity discount permitted) Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. | | | | | | | | | |
| Advance Order - | # of Copies | | The Director is her overpayment, to D | reby | authorized to char it Account Numb | ge the | required fee(s), any de (enclose a | iciency, or c | redit any of this form). |
| 5. Change in Entity Stat | tus (from status indicate s SMALL ENTITY state | | Dh. Applicant is no | lono | or claiming SMA | I EN | FITY status. Sec 37 CI | D 1 27(a)(2) | |
| NOTE: The Issue Fee and interest as shown by the | | | | | | | | | |
| | | nes i atent and Tradema. | k Omec. | | | | | | |
| Authorized Signature | | | | | Date | | | | |
| Typed or printed name | | | Registration No. | | | | | | |
| This collection of inform an application. Confident submitting the completes this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223 | ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu firginia 22313-1450. DO 13-1450. | CFR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to the ONOT SEND FEES OR | on is required to obtain 1.14. This collection is y depending upon the ir ne Chief Information Of COMPLETED FORMS | or re s esti ndivi fficer S TO | etain a benefit by t mated to take 12 dual case. Any co r, U.S. Patent and THIS ADDRESS | he pub minuter mmen Trader S. SEN | ic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner i | by the USP g gathering, ne you requi rtment of Co or Patents, F | PO to process) preparing, and re to complete ommerce, P.O. P.O. Box 1450. |

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Oak Ridge, TN 37831

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| 24298 | 7590 | 08/08/2008 | | EXAM | UNER | |
| UT-Battelle, LLC | | | | VIJAYAKUMAR, KALLAMBELLA M | | |
| Office of Intellectual Property | | | | ART UNIT | PAPER NUMBER | |
| One Bethal Valley Road 4500N, MS-6258 | | | | 1793 DATE MAILED: 08/08/200 | 8 | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1003 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1003 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/809,174 PARANTHAMAN ET AL. Notice of Allowability Examiner Art Unit KALLAMBELLA VIJAYAKUMAR 1793

| All claims being allowable, PROSECUTION ON THE MERITS IS (OR REM herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other a NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. To of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPE | appropriate communication will be mailed in due course. THIS his application is subject to withdrawal from issue at the initia |
|--|--|
| This communication is responsive to <u>07/16/2008</u>. | |
| The allowed claim(s) is/are <u>52-54</u>. | |
| 3. | peived. |
| A SUBSTITUTE OATH OR DECLARATION must be submitted. Note INFORMAL PATENT APPLICATION (PTO-152) which gives reason | |
| 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be subn (a) ☐ including changes required by the Notice of Draftsperson's Pate 1) ☐ hereto or 2) ☐ to Paper No./Mail Date | ant Drawing Review (PTO-948) attached nent / Comment or in the Office action of soluble be written on the drawings in the front (not the back) of according to 37 CFR 1.121(d). DLOGICAL MATERIAL must be submitted. Note the |
| Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material | 5. ☐ Notice of Informal Patent Application 6. ☐ Interview Summary (PTO-413), Paper No./Mail Date 7. ☐ Examiner's Amendment/Comment 8. ☑ Examiner's Statement of Reasons for Allowance |

/Stanley Silverman SPE AU1793/

9. Other _____.

Application/Control Number: 10/809,174

Art Unit: 1793

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claims 52-54 are allowed.

Applicants amendment cancels the rejected claims leaving behind only the allowed claims, and conditions the application for allowance. The reasons for the allowance of the claims 52-54 are set forth in the office action mailed 07/02/2008. The prior art of record neither teaches nor fairly suggest a laminate superconducting article comprising a combination of specific configuration, structure and composition.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KALLAMBELLA VIJAYAKUMAR whose telephone number is (571)272-1324. The examiner can normally be reached on M-F 07-3.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 5712721358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1793

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KMV/ July 22, 2008.

/Stanley Silverman/

Supervisory Patent Examiner, Art Unit 1793